

ABSTRACT

A driving apparatus that does not include a member
between the piezoelectric element and the target object. The
5 driving apparatus comprises a piezoelectric element, which is
fixed to a stationary member via the ends, a target object,
which is frictionally engaged with the ends of the
piezoelectric element, and piezoelectric element driving
devices that each apply a voltage to the piezoelectric
10 element such that the speed of extension and the speed of
contraction of the portion of the piezoelectric element
between the respective are different.